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NOTICE OF ALLOWANCE AND FEE(S) DUE

5642

7590

08/09/2004

SCIENTIFIC-ATLANTA, INC. INTELLECTUAL PROPERTY DEPARTMENT 5030 SUGARLOAF PARKWAY LAWRENCEVILLE, GA 30044

EXAMINER SRIVASTAVA, VIVEK		
ART UNIT	PAPER NUMBER	

DATE MAILED: 08/09/2004

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/590,521 06/09/2000 Arturo A. Rodriguez A-5704 1994

TITLE OF INVENTION: SYSTEMS AND METHODS FOR ADAPTIVE SCHEDULING AND DYNAMIC BANDWIDTH RESOURCE ALLOCATION MANAGEMENT IN A DIGITAL BROADBAND DELIVERY SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	. 11/09/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (703) 746-4000

INSTRUCTIONS: This fo appropriate. All further co- indicated unless corrected maintenance fee notification	respondence including the below or directed otherwise	smitting the ISSU Patent, advance on in Block 1, by (a	JE FEE and Purders and notifically specifying a	UBLICATION FEE (if requestion of maintenance fees new correspondence address	uired). Blocks 1 through 5 s will be mailed to the current s; and/or (b) indicating a sep	hould be completed v correspondence addre arate "FEE ADDRESS	where ss as " for	
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)		Fee(s) Transmittal. T	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, mus					
5642 7:	590 08/09/2004			have its own certifica	have its own certificate of mailing or transmission.			
SCIENTIFIC-ATLANTA, INC. INTELLECTUAL PROPERTY DEPARTMENT 5030 SUGARLOAF PARKWAY LAWRENCEVILLE, GA 30044			Ce I hereby certify that t States Postal Service addressed to the Ma transmitted to the US	ertificate of Mailing or Tran. his Fee(s) Transmittal is bein with sufficient postage for fi il Stop ISSUE FEE address PTO (703) 746-4000, on the	smission g deposited with the U st class mail in an env above, or being facs date indicated below.	Jnited elope simile		
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APPLICATION NO.	FILING DATE		FIRST NAMED I	INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	<u> </u>	
09/590,521	06/09/2000	<u> </u>	Arturo A. Ro	odriguez	A-5704	1994		
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nonprovisional	NO	\$1330)	\$0	\$1330	- 11/09/2004		
EXAM	INER	ART UN	пт	CLASS-SUBCLASS]			
SRIVASTA	VA, VIVEK	2611		725-095000	_			
1. Change of correspondenc CFR 1.363).	e address or indication of "Fe	ee Address" (37	2. For printing	ng on the patent front page, l	ist			
Change of corresponde	ence address (or Change of C	Correspondence	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,					
Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.		(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to						
3. ASSIGNEE NAME AND	RESIDENCE DATA TO B	E PRINTED ON T	L ΓΗΕ PATENT (print or type)		•		
			`	• •• /	nee is identified below, the o	locument has been file	ed for	
(A) NAME OF ASSIGN	EE	(B) RESIDENCE	: (CITY and STATE OR CO	OUNTRY)			
Please check the appropriate	assignee category or catego	ries (will not be pr	inted on the pate	ent); 🗆 individual 🗅	corporation or other private g	roup entity govern	ımen	
4a. The following fee(s) are	enclosed:	45	. Payment of Fe	ee(s):				
☐ Issue Fee			☐ A check in t	the amount of the fee(s) is en	closed.			
☐ Publication Fee (No small entity discount permitted) ☐ Paym		☐ Payment by	Payment by credit card. Form PTO-2038 is attached.					
☐ Advance Order - # of	Copies		☐ The Director Deposit Accou	or is hereby authorized by count Number	harge the required fee(s), or (enclose an extra c	credit any overpayme opy of this form).	nt, to	
5. Change in Entity Status	(from status indicated above)				· · · · · ·		
a. Applicant claims SM	AALL ENTITY status. See 3	7 CFR 1.27.	D b. Applicant	t is not claiming SMALL EN	TITY status. See, e.g., 37 CF	R 1.27(g)(2).		
					ely paid issue fee to the applications and attorney or agent; or t		rty in	
(Authorized Signature)		(Date)		· - · · · · · · · · · · · · · · · · · ·				

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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SCIENTIFIC-ATLANTA, INC.		SRIVASTAVA, VIVEK		
	AL PROPERTY DEPARTI DAF PARKWAY	MENT	ART UNIT	PAPER NUMBER
LAWRENCEVILLE, GA 30044			2611	
			DATE MAILED: 08/09/2004	4

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)			
	09/590,521	RODRIGUEZ ET AL.			
Notice of Allowability	Examiner	Art Unit			
	Vivek Srivastava	2611			
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to 5/24/04.	(OR REMAINS) CLOSED in this a or other appropriate communication GHTS. This application is subject	pplication. If not included on will be mailed in due course. THIS			
2. The allowed claim(s) is/are 91-107 (renumbered as 1-17).					
3. X The drawings filed on <u>lokeloo</u> are accepted by the Examine					
 4. ☐ Acknowledgment is made of a claim for foreign priority und a) ☐ All b) ☐ Some* c) ☐ None of the: 					
1. Certified copies of the priority documents have					
 Certified copies of the priority documents have Copies of the certified copies of the priority documents. International Bureau (PCT Rule 17.2(a)). 					
* Certified copies not received:	-d 25 H C O C 440/-) //	riand andianian)			
5. Acknowledgment is made of a claim for domestic priority ur (a) The translation of the foreign language provisional a		sional application).			
6. Acknowledgment is made of a claim for domestic priority ur					
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of to 7. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent application (PTO-152) which gives reas	this application. THIS THREE-MO	ER'S AMENDMENT or NOTICE OF			
8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftspers 1) hereto or 2) horestones.	son's Patent Drawing Review (PT	O-948) attached			
(b) including changes required by the proposed drawing correction filed, which has been approved by the Examiner.					
(c) 🔲 including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No					
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet.					
9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
Attachment(s)					
 1 Notice of References Cited (PTO-892) 3 Notice of Draftperson's Patent Drawing Review (PTO-948) 5 Information Disclosure Statements (PTO-1449), Paper No 7 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	4☐ Interview Sumı 6☐ Examiner's Arr	mal Patent Application (PTO-152) mary (PTO-413), Paper No nendment/Comment atement of Reasons for Allowance			
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DETAILED ACTION

Page 2 #35/H W.Lawsan 8/Le/O4

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Min Win on 8/2/04.

The application has been amended as follows:

Claims 83 and 85-90 will be cancelled

Allowable Subject Matter

Claims 91 - 107 are allowed.

The following is an examiner's statement of reasons for allowance: the prior art fails to teach allocating bandwidth and transmitting a first video broadcast transmission via a first delivery mode and a second broadcast transmission via second delivery mode of a first video program to a user, wherein the second broadcast is delayed, receiving a

Application/Control Number: 09/590,521

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first input from a first STT at a first input time, the first input being configured to request delivery of a first video program during the first time interval with a first level of random access functionality, where the first level of random access functionality is configured to operate in the second delivery mode, responsive to receiving the first input, providing the first video program to the first STT during the first time interval via the first delivery mode, receiving a second input form the first STT during the first time interval, the second input being configured to select a different playback mode of the first video program, and responsive to receiving the second input, establishing a dedicated network session between a server and a first STT and providing the different playback mode of at least a portion of the first video program to the first STT via the second delivery mode.

Brown (5,771,435), the closest reference on record, fails to disclose these limitations.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 09/590,521

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Conclusion

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 308-9051, (for formal communications intended for entry)

Or:

(703) 308- 5399 (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vive Srivastava whose telephone number is (703) 305 - 4038. The examiner can normally be reached on Monday - Thursday from 8:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andy Faile, can be reached at (703) 305 - 4380.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (703) 305 - 3900.

VS 8/2/04

VIVEK SRIVASTAVA PRIMARY EXAMINER